

United States Patent and Trademark Office

lu

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/792,065	03/02/2004	Chang-Ho Do	00939H-088000US	00939H-088000US 4210	
20350 7	90 05/04/2005		EXAM	EXAMINER	
TOWNSEND AND TOWNSEND AND CREW, LLP			HOANG,	HOANG, HUAN	
	TWO EMBARCADERO CENTER EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834			PAPER NUMBER	
SAN FRANCI				2827	
			DATE MAILED: 05/04/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/792,065	DO, CHANG-HO				
Office Action Summary	Examiner	Art Unit				
	Huan Hoang	2827				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on					
2a) ☐ This action is FINAL . 2b) ☒ Thi	s action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 and 10 is/are rejected. 7) Claim(s) 5-9 is/are objected to. 8) Claim(s) are subject to restriction and/or 	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E						
Priority under 35 U.S.C. § 119						
12) ⊠ Acknowledgment is made of a claim for foreign a) ⊠ All b) □ Some * c) □ None of: 1. ☑ Certified copies of the priority document 2. □ Certified copies of the priority document 3. □ Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	□ □ · · · · -					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) L Interview Summary Paper No(s)/Mail Da					
3) whiformation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>061604</u> .		atent Application (PTO-152)				

DETAILED ACTION

Claim Objections

1. Claims 2, 4, 7, 8 and 9 are objected to because of the following informalities:

The word "a" before "predetermined target voltage level" (claim 2, line 5) should be "the".

Claims 2 and 4 recite the limitation "the power supply voltage" in line 8 and lines 3-4, respectively. There is insufficient antecedent basis for this limitation in the claims.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-4 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Hikada et al..

Hikada et al. discloses an internal voltage generating circuit having all the elements as recited in claims 1-4 and 10 as follows:

a comparing means (71, Fig. 4) for comparing a voltage level of an internal voltage (30, Fig. 4) with that of a reference voltage (VREF, Fig. 4);

Application/Control Number: 10/792,065 Page 3

Art Unit: 2827

a pull-up driving means (Tr3, Fig. 4) for performing a pull-up operation for an output terminal (30) in response to an output signal of the comparing means; a discharging means (Tr1 and Tr2) for discharging the output terminal in a period (t1, Fig. 3 and column 11, lines 34-39) of which the voltage level of the internal voltage is higher than a predetermined target voltage level (Vss');

a first discharge unit (Tr1);

a second discharge unit (Tr2).

Allowable Subject Matter

4. Claims 5-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art does not teach or suggest the following:

wherein the first discharging means includes a plurality of active loads connected between the output terminal and a ground voltage in series.

a voltage divider for producing a discharge control signal by dividing the power supply voltage; and

a discharge driver for performing a discharge operation of the output terminal in response to the discharge control signal.

Art Unit: 2827

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Atsumi discloses an internal power supply circuit for use in a semiconductor device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huan Hoang whose telephone number is (571) 272-1779. The examiner can normally be reached on Mon-Fri 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoai Ho can be reached on (571) 272-1777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Huan Hoang Primary Examiner Art Unit 2827

Art Unit 28

HH 5/1/05.